

Patent Claims:

1. Motor vehicle brake having at least one brake disc or at least one brake drum, at least two brake linings, and a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, with the brake linings including a carrier plate (1) and a friction layer (2) movable into engagement with the brake disc or the brake drum, characterized in that the device for detecting the tensioning force is designed in such a manner that it senses variations in the electric resistance (3) of the friction layer (2) that occur upon actuation of the motor vehicle brake, and evaluates them to determine the tensioning force.
2. Motor vehicle brake having at least one brake disc or at least one brake drum, at least two brake linings, and a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, with the brake linings including a carrier plate (1), a friction layer (2) movable into engagement with the brake disc or the brake drum, as well as a connecting layer (12) arranged between the carrier plate (1) and the friction layer (2), characterized in that the device for detecting the tensioning force is designed in such a manner that it senses variations in the electric resistance of the connecting layer (12) that occur upon actuation of the motor vehicle brake, and evaluates them to determine the tensioning force.

3. Motor vehicle brake having at least one brake disc or at least one brake drum, at least two brake linings, and a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, with the brake linings including a carrier plate and a friction layer movable into engagement with the brake disc or the brake drum,  
c h a r a c t e r i z e d in that the device for detecting the tensioning force is formed of a force-sensing element (11) integrated into the friction layer, which supplies an electric signal upon actuation of the motor vehicle brake that is evaluated to determine the tensioning force.
4. Motor vehicle brake having at least one brake disc or at least one brake drum, at least two brake linings and a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, with the brake linings including a carrier plate and a friction layer movable into engagement with the brake disc or the brake drum,  
c h a r a c t e r i z e d in that the device for determining the tensioning force is formed of a force-sensing element integrated into the carrier plate, which supplies an electric signal upon actuation of the motor vehicle brake that is evaluated to determine the tensioning force.
5. Motor vehicle brake as claimed in claim 1 or 2,  
c h a r a c t e r i z e d in that the detected resistance values are adjusted to a measured or

calculated temperature value which is furnished from a temperature-measuring element (5) to detect the temperature of the friction layer (2) or the connecting layer (12).

6. Motor vehicle brake as claimed in claim 5,  
c h a r a c t e r i z e d in that the friction layer (2) or the connecting layer (12) is connected to an electric conditioning circuit (7), and the output signal thereof, along with the output signal representative of the temperature value, is sent to a microprocessor (8) for evaluation.
7. Motor vehicle brake as claimed in any one of the preceding claims,  
c h a r a c t e r i z e d in that means for continuously monitoring the electric resistance of the friction layer or the connecting layer at a defined temperature are provided, and the measuring values thereof are taken into account to detect aging effects and compensated by data stored in the microprocessor, if applicable.
8. Motor vehicle brake as claimed in any one of the preceding claims,  
c h a r a c t e r i z e d in that means for sensing the wear of the friction layer are provided, the measuring values whereof are compensated by data stored in the microprocessor.